

Recovery Plan Action Status

Plan Name: Recovery Plan for Coastal Plants of the Northern San Francisco Peninsula

Plan Status: Final

Plan Date: 06-Oct-03

Lead Agency: USFWS

Lead Office: Sacramento Fish And Wildlife Office

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414-8600)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 1.1.1.1	Develop site-specific implementation plans under the Presidio Vegetation Management Plan to prescribe maintenance and enhancement activities consistent with this recovery plan for San Francisco lessingia sites at the Presidio. Evaluate and revise management plans as needed	Partially Complete	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game	Management: Planning	Species Expert	NPS is juggling Lessingia, weed mgt and tree mgt.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 1.1.1.2	Delineate and permanently dedicate Golden Gate National Recreation Area and Presidio Trust lands for recovery of San Francisco lessingia	Not Started	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game	Acquisition: Management Agreement	Species Expert	NPS is juggling VMP, PMP and Biological opinions.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 1.1.1.3.1	In coordination with the National Park Service, develop a management plan for the two portions of the Special Management Zone designated in the Presidio Vegetation Management Plan that overlap with the San Francisco lessingia Presidio Recovery Unit.	Partially Complete	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust	Management: Planning	Species Expert	NPS is juggling VMP, PMP and Biological Opinions.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 1.1.1.3.2	Evaluate West Washington Housing for inclusion in Presidio Recovery Unit	Partially Complete	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust	Management: Planning	Species Expert	NPS is juggling VMP, PMP and Biological Opinion.

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San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 1.1.1.3.3	Develop and implement site specific implementation plan for the building 1750 and Bowley Street Interim Management Area	Partially Complete	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust	Management: Habitat Maintenance and Manipulation	Species Expert	NPS is juggling VMP, PMP and Biological Opinion.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 1.1.1.3.4	Evaluate other existing site-specific management and monitoring plans for Presidio populations of San Francisco lessingia; amend as needed.	Partially Complete	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game	Management: Habitat Maintenance and Manipulation	Species Expert	NPS is juggling VMP, PMP and Biological Opinion.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 1.1.1.4	Commit resources to implement vegetation management and restoration action plans affecting San Francisco lessingia at the Presidio	Partially Complete	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game	Management: Habitat Maintenance and Manipulation	Species Expert	NPS is juggling VMP, PMP and Biological Opinion.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 1.1.2	Monitor all Presidio populations of San Francisco lessingia.	Partially Complete	FY 1995 - FY 1999		Golden Gate National Recreation Area, Presidio Trust	Management: Predator and Competitor Control	Species Expert	Weed Management
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 1.1.3	Establish permanent and seasonal staff dedicated to lessingia vegetation management.	Partially Complete	FY 1995 - FY 1999		Golden Gate National Recreation Area, Presidio Trust	Management: Predator and Competitor Control	Species Expert	Weed Management.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 1.2.1	Establish protection of Daly City population of San Francisco lessingia under existing ownership.	Not Started				Acquisition: Management Agreement	Contract	Get SMT parcel data, map LEGE, do plan with SMT parks.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 1.2.2	Acquire Daly City parcels within proposed San Francisco lessingia reserve.	Not Started			City of Daly, California, Local conservation/horticultural organizations [San Francisco Presidio], U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Easement	Labor type not yet selected	uncertain appraisal and acquisition cost

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San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 1.2.3	Establish a land manager and endowment fund for management of the Daly City San Francisco lessingia reserve.	Not Started			City of Daly, California, Local conservation/horticultural organizations [San Francisco Presidio], U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: Easement	Contract	Get SMT parcel data, map LEGE, do plan with SMT parks.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 1.2.4	Prepare and implement a long-term management and restoration plan for Daly City San Francisco lessingia reserve.	Not Started			City of Daly, California, Private Consultant/Contractor [San Francisco Presidio management], Local conservation/horticultural organizations [San Francisco Presidio], U.S. Fish and Wildlife Service, California Department of Fish and Game	Management: Planning	Contract	Get SMT parcel data, map LEGE, do plan with SMT parks.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 2.1.1	Prepare plans for habitat restoration and augmentation or reintroduction of San Francisco lessingia populations	Discontinued	FY 2006		Private Consultant/Contractor [San Francisco Presidio management], Local conservation/horticultural organizations [San Francisco Presidio], U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game	Management: Reintroduction	Volunteer	ap soil types. In FY '08, SFWO deobligated funds to SF Zoo after their reintro of seed failed (no germination). They hope to continue efforts to reintro the species in future yrs.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 2.1.2	Do a genetics management plan for San Francisco lessingia.	Not Started			U.S. Fish and Wildlife Service	Management: Habitat Maintenance and Manipulation	Contract	
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 2.2.1	Expand population and restore habitat above Lobos Dunes site, north and east of Lobos Creek to Battery Caulfield Road.	Partially Complete	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game	Acquisition: Management Agreement	Species Expert	Manage annual weeds.

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San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 2.2.2	Expand populations and restore habitat from Lobos Dunes to Baker Beach Dunes.	Not Started			U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	requires prior planning of Actions A 1.1.1.1, A 1.1.3 & A 2.1.1
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 2.2.3	Expand San Francisco lessingia populations and restore habitat above Lobos Dune Reserve through Wherry Housing Area, Presidio.	Not Started			U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game	Management: Habitat Maintenance and Manipulation	Species Expert	Manage annual weeds
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 2.2.4	Expand San Francisco lessingia populations and restore habitat north of former Public Health Services Hospital, Presidio.	Not Started			U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game	Management: Habitat Maintenance and Manipulation	Species Expert	Manage annual weeds. Population west of former Hospital, was damaged by being buried under soil and sand that eroded during heavy rainstorm from side slope of Landfill 10 currently being remediated. Some plants and habitat lost. Public Services Hospital is being converted into housing.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 2.2.5	Expand San Francisco lessingia populations and restore habitat within the Daly City Reserve.	Not Started			City of Daly, California, Private Consultant/Contractor [San Francisco Presidio management], U.S. Fish and Wildlife Service, California Department of Fish and Game	Management: Habitat Maintenance and Manipulation	Contract	Manage annual weeds.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 2.2.6	Restore habitat and reintroduce San Francisco lessingia to dunes at Fort Funston reserve for San Francisco lessingia	Unknown			U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, California Department of Fish and Game	Management: Habitat Maintenance and Manipulation	Contract	Manage annual weed.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 2.3	Reintroduce beach layia to Fort Funston dunes.	Not Started			U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, California Department of Fish and Game	Management: Reintroduction	Contract	Manage annual weed.

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San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 2.4.1	Acquire Hawk Hill dune remnant	Unknown			Local conservation/horticultural organizations [San Francisco Presidio], City of San Francisco Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Acquisition: Easement	Labor type not yet selected	cost includes endowment for management
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 2.4.2	Determine ownership and acquire sand slopes near Sutro Heights	Unknown			City of San Francisco Department of Parks and Recreation, U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, California Department of Fish and Game, Private landowners	Acquisition: Fee Title	Contract	Manage annual weed.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 2.4.3	Control or eradicate invasive nonnative vegetation within satellite reserves	Unknown			Local conservation/horticultural organizations [San Francisco Presidio], City of San Francisco Department of Parks and Recreation, U.S. Fish and Wildlife Service, Golden Gate National Recreation Area	Management: Habitat Maintenance and Manipulation	Contract	Manage annual weed.

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San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 2.4.4	Establish San Francisco lessingia in satellite reserves.	Partially Complete	FY 2008		Local conservation/horticultural organizations [San Francisco Presidio], City of San Francisco Department of Parks and Recreation, U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, California Department of Fish and Game	Management: Reintroduction	Internal Technical Assistance	Manage annual weed. NPS conducted reintro.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 3.1	Prepare information presentations for public outreach (San Francisco lessingia).	Unknown			Local conservation/horticultural organizations [San Francisco Presidio], City of San Francisco Department of Parks and Recreation, U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game	Other: Information and Education	Contract	
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 3.2	Conduct public outreach meetings prior to major recovery actions for San Francisco lessingia	Unknown			Local conservation/horticultural organizations [San Francisco Presidio], City of San Francisco Department of Parks and Recreation, U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game	Other: Information and Education	Contract	

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San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 3.5	Actively support public volunteer participation in monitoring and site stewardship of San Francisco lessingia reserves	Partially Complete	FY 1995 - FY 1999		Local conservation/horticultural organizations [San Francisco Presidio], City of San Francisco Department of Parks and Recreation, U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game	Other: Information and Education	Contract	NPS is doing well. Daly City needs help.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 3.6	Coordinate all outreach in actions 3.1 - 3.5 with partners. Coordinate methods, phasing and prioritization.	Unknown			City of San Francisco Department of Parks and Recreation, U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust	Other: Information and Education	Contract	
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 4.1	Do genetic crossing studies as needed.	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service	Research: Genetics	Species Expert	Presidio Trust doing the work.
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	3	A 4.2	Study variation in ecological and genetic characteristics of San Francisco lessingia.	Unknown			Private Consultant/Contractor [San Francisco Presidio management], U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game, Universities	Research: Habitat Requirements	Contract	
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 4.3	Study rates and modes of recolonization by invasive nonnative plants and their control.	Not Started			U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, California Department of Fish and Game, Universities	Research: Propagation	Contract	

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San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	3	A 4.4	Study the pollination ecology of San Francisco lessingia.	Unknown			Private Consultant/Contractor [San Francisco Presidio management], U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game, Universities	Research: Taxonomic Studies	Contract	
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 4.5	Experimentally investigate rotational trail closure/temporary pedestrian exclosure as a management and conservation method for San Francisco lessingia	Not Started			U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, California Department of Fish and Game, Universities	Research: Management Techniques	Contract	
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 4.6	Conduct field experiments on restoring and managing dune topography conservation of San Francisco lessingia.	Partially Complete	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, California Department of Fish and Game, Universities	Research: Management Techniques	Species Expert	
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 4.7	Study seed dispersal and seed bank ecology of San Francisco lessingia	Complete		FY 1995 - FY 1999	U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game, Universities	Research: Demographic Studies	Species Expert	
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 4.8	Study effects of substrate conditions on growth and reproduction of San Francisco lessingia.	Not Started			U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, California Department of Fish and Game, Universities	Research: Demographic Studies	Species Expert	

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San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 4.9	Study seed dispersal and seed bank ecology of San Francisco lessingia	Not Started			City of Daly, California, U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game, Private landowners, Universities	Research: Demographic Studies	Species Expert	
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 5.1	Establish cultivated populations of San Francisco lessingia at botanical gardens	Unknown			Local conservation/horticultural organizations [San Francisco Presidio], U.S. Fish and Wildlife Service, California Department of Fish and Game, Universities	Management: Other	Contract	
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	A 5.2	Maintain stored seed bank to ensure survival of San Francisco lessingia	Unknown			Local conservation/horticultural organizations [San Francisco Presidio], U.S. Fish and Wildlife Service, Universities	Management: Other	Contract	
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A 6	Develop a participation plan with all partners.	Not Started			City of San Francisco Department of Parks and Recreation, U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust	Other: Information and Education	Contract	

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San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	1	A.3.3	Publicize and promote restoration sites for San Francisco lessingia in advance of modifications	Unknown			Local conservation/horticultural organizations [San Francisco Presidio], City of San Francisco Department of Parks and Recreation, U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game	Other: Information and Education	Contract	
San Francisco lessingia (Lessingia germanorum (=L.g. var. germanorum))	2	a 3.4	Publicize effects of San Francisco lessingia projects on scenic views and recreational use of GGNRA / Presidio.	Unknown			Local conservation/horticultural organizations [San Francisco Presidio], City of San Francisco Department of Parks and Recreation, U.S. Fish and Wildlife Service, Golden Gate National Recreation Area, Presidio Trust, California Department of Fish and Game	Other: Information and Education	Internal Administrative	